PATENT U.S. Ser. No. 10/572,720

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the Application. No new matter has been introduced by way of the claim amendments. Current additions to the claims are noted with <u>underlined</u> text. Current deletions from the claims are indicated by text strikethrough or [[double bracketing]]. The status of each claim is indicated in parenthetical expression following the claim number.

WHAT IS CLAIMED IS:

1. (Currently Amended) A fluorescent ink, comprising:

a solvent; and

suspended carbon nanotubes suspended in the solvent; and a solvent:

vent,

wherein the carbon nanotubes are dispersed in the solvent; and

wherein the suspended-carbon nanotubes are comprise-fluorescent carbon nanotubes and have diameters of less than about 3 nm:

wherein the fluorescent carbon nanotubes have a visible excitation and an emission following the visible excitation; and

wherein the fluorescent ink is suitable for deposition on a surface.

wherein fluorescent ink is deposited on a surface; and

wherein the solvent is evaporated from the surface.

- (Currently Amended) The fluorescent ink of Claim 1, wherein the fluorescent—carbon nanotubes are selected from the group consisting of single-wall carbon nanotubes, multi-wall carbon nanotubes, double-wall carbon nanotubes, and combinations thereof.
- (Currently Amended) The fluorescent ink of Claim 1, wherein the fluorescent-carbon nanotubes comprise single-wall carbon nanotubes.
- 4. (Cancelled)
- (Currently Amended) The fluorescent ink of Claim 3, wherein the fluorescent-carbon nanotubes comprise an essentially homogenous population of carbon nanotubes;

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wherein the essentially homogenous population comprises a property selected from the group consisting of type, dimension, or species.

 (Currently Amended) The fluorescent ink of Claim 3, wherein the fluorescent carbon nanotubes comprise separated carbon nanotubes;

wherein the separated carbon nanotubes have fluorescence properties tuned within a range of excitation and emission wavelengths.

- (Previously Amended) The fluorescent ink of Claim 3, wherein the solvent is selected from
 the group consisting of water, organic solvents, supercritical fluids, and combinations
 thereof.
- 8. (Previously Amended) The fluorescent ink of Claim 7, further comprising a surfactant.
- (Previously Amended) The fluorescent ink of Claim 3, further comprising an additive selected from the group consisting of traditional fluorescent inks, dyes, binders, nanoparticles, magnetic materials, and combinations thereof.
- (Previously Amended) The fluorescent ink of Claim 3, wherein the emission comprises a near-infrared emission.
- 11. 75. (Cancelled)
- (Currently Amended) The fluorescent ink of Claim 1, wherein the fluorescent ink is <u>suitable</u> for deposition on a surface-deposited in patterned form.
- 77. (Previously Presented) The fluorescent ink of Claim 1, wherein the carbon nanotubes are homogenized by electronic type.
- 78. (Previously Presented) The fluorescent ink of Claim 3, further comprising a polymer.
- (Previously Presented) The fluorescent ink of Claim 3, wherein the carbon nanotubes are chemically derivatized.
- 80. (Previously Presented) The fluorescent ink of Claim 3, wherein the fluorescent ink comprises an invisible ink.